



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: TANGA2

In re Application of:)	Art Unit: 1634
)	
Michifumi TANGA, et al.)	Examiner: B.J. FORMAN
)	
Serial No.: 09/601,875)	Confirmation No. 5274
)	
Filed: October 12, 2000)	Washington D.C.
)	
For: SUBSTRATES AND CHIPS)	January 27, 2003
FOR IMMOBILIZING AND)	
AMPLIFYING DATA)	

AMENDMENT

Honorable Commissioner for Patents
Washington, D.C. 20231

In response to the Office Action of
October 28, 2003, please enter the following amendment:

IN THE CLAIMS

Please cancel claims 4 and 5 without prejudice or
disclaimer.

Please amend claim 1 as follows:

1. (Fourth Amendment) Solid state substrate adapted
and configured for DNA immobilization, said solid state
substrate having a thermal conductivity ratio of at least
0.1W/cmEK for amplifying and immobilizing DNA,
wherein the surface of the substrate is modified polar radical
at the surface of the substrate by binding a chloride by
irradiating the surface of the substrate with ultraviolet
light in an atmosphere of chlorine gas to bind chloride to the
substrate, and replacing the chloride by a hydroxyl radical by
dipping the substrate into a boiling alkali solution or steam,
or by binding an amino radical to the substrate by irradiating

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